

SHTAMENTOV, Andrey Yevgen'yevich; SOSYANTS, Vasiliy Georgiyevich;
FISHKL'SON, Mikhail Semenovich; YUDIN, V.A., red.; ZAMYSHLYAYEVA,
I.M., red.izd-va; LEVTUKHIN, A.A., tekhn.red.

[City transportation and traffic engineering] Gorodskoi transport
i organizatsiya dvizheniya. Moskva, Izd-vo M-va kommunkhos.RSSSR,
1960. 351 p. (MIRA 13:8)
(Traffic engineering) (Local transit)

STRAMENTOV, A.Ye., prof., doktor tekhn.nauk

Problems in modern urban development. Gor.khoz.issak. 34 no.3:
1-7 Mr '60. (MIL 15:8)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(City planning) (Traffic engineering)

STRAMENTOV, A.Ye., prof., doktor tekhn. nauk; CHEREPANOV, V.A.,
dotsent, kand. tekhn. nauk

Organization of urban traffic. Gor. khoz. Mosk. 15 no.10:
40-44 O '61. (MIR 1617)

(City traffic—Congresses)

STRAMENTOV, A.Ye.

Some problems in the rebuilding of Moscow. Gor.khoz.Mosk. 35
no.4:10-12 Ap '61. (MIRA 14:5)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(Moscow—City planning)

STRAMENTOV, Andrey Yevgen'yevich, prof., doktor tekhn. nauk;
BUTYAGIN, Veniamin Aleksandrovich, dots., kand. tekhn. nauk;
FISHKEL'SON, M.S., red.; BOLOTINA, A.V., red. izd-va; KHENOKH,
F.M., tekhn. red.

[Planning and improvement of cities] Planirovka i blago-
ustroistvo gorodov. Izd.2., perer. i dop. Moskva, Izd-vo M-va
kommun.khoz.RSFSR, 1962. 507 p. (MIRA 16:3)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury
SSSR (for Stramentov).
(City planning)

STRAMENTOV, A.Ye.

Problems of traffic movement in present-day city planning. Izv.
ASIA no.3:37-42 '62. (MIA 15:11)

1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR.
(City traffic)

MIRAMENTOV, Andrey Yevgen'yevich, doktor tekhn. nauk, prof.;
FISHEL'SON, Mikhail Samuilovich, kand. tekhn. nauk, doce.;
NADEZHIN, A.N., red.; GOLCVKINA, A.A., tekhn. red.

[City traffic; problems of speed and safety] Gorodskoe divi-
zhenie; voprosy skorosti i bezopasnosti. Moskva, Gosstroj-
izdat, 1963. 293 p.
(City traffic) (Traffic engineering)

(MIRA 16:12)

STATEMENT, Avery Vaygantovich [decorated] [initials]
[initials] (U.S.A.)
[initials] (U.S.A.)
[decorated]

[City streets and roads] Gorodskie silnye drogi.
Vaygant, Street plan, Ref. 343-1. (C.I.A. 1960)

SOV/137-58-10-20723

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 10, p. 55 (USSR)

AUTHOR: Gebler, I.V., Stramkovskaya, K.K.

TITLE: Lignite Absorption of Heavy Metals from Dilute Solutions of Their Salts (O pogloshchenii burym uglem tyazhelykh metallov iz razbavlennykh rastvorov ikh soley)

PERIODICAL: Izv. vost. fil. AN SSSR, 1957, Nr 12, pp 78-82

ABSTRACT: An investigation is made of the possibility of using lignite to absorb Cu, Ag, and Au from dilute aqueous solutions by cationization and sorption of their ions. It is found that Cu is well absorbed from solutions of CuSO_4 and the complex salt $[\text{Cu}(\text{NH}_3)_4]^{+}\text{SO}_4^{-}$, Ag from AgNO_3 solution and the complex salt $[\text{Ag} \cdot (\text{NH}_3)_2]^+\text{Cl}^-$, and Au from AuCl solution. Au and Ag are absorbed if they are cations. The metal may be removed from the coal by treatment thereof with weak solutions of the appropriate acids or by burning it. It is found possible to recover Au in this fashion from a number of mineral sources, and also to increase the recovery of Au in Pb concentrate by addition of coal to pulp in the flotation of polymetallic ores.

Transl. by Dept. of Chemical & Metallurgical Process - L.P.
C. Metal Recovery - 100% possible.

Card 1/1

AUTHOR: Strankovskaya, N. K. SOV/35-59-9-13/16

TITLE: Investigations on the Carbonisation of Humic Acids.
(Issledovaniye obuglerozhivaniya guminovykh kislot)

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel, 1953, Nr 9,
pp 67 - 63, (USSR)

ABSTRACT: Conditions of separation of water and CO₂ from humic acids were evaluated. The authors described the effect of various factors on the decarboxylation and dehydration processes of humic acids and their salts: temperatures (170° - 300°C), pressure (9 - 89 atms) and time of heating (from 5 - 150 hours). Dehydrated humic acids, humic acids in the form of an aqueous gel and soluble and insoluble salts of humic acids from Tatarsk turf of the Tomsk region were tested. Results of these experiments are given in the form of a graph and in a table. It can be seen that when dehydrated humic acids are maintained at a temperature of 170° - 300° in water vapour under pressure - or in the absence of pressure - dehydrogenation sets in. When the humic acids and their salts are heated at 170° - 300°C at pressures corresponding to these temperatures decarboxylation takes place. The separation of CO₂ and H₂O from humic acids

Card 1/2

SGV/AS-52-9-13/16

, Investigations on the Carbonisation of Humic Acids.

during metamorphosis of the coal is obviously possible also without the aid of micro-organisms. The physical condition of humic acids and the water supply influence considerably the further course of the reaction. The dry humic acids are subjected to dehydration during metamorphosis. One of the most important factors during metamorphosis is the temperature which influences the carbonisation of humic acids. There is 1 Table, 1 Figure and 7 References: 5 Soviet and 1 German.

ASSOCIATION: Politekhnicheskiy Inst. Im. S. M. Kirova (The Polytechnical Institute im. S. M. Kirov)

- 1. Humic acids--carbonization
- 2. Humic acids--Dehydration
- 3. Humic acids--Temperature factors
- 4. Humic acids--Properties
- 5. Coal--Chemical properties

Line 2/2

THE JOURNAL OF

Tendency of humic acids to cake, Inv. S.P. and U.S.D.R. no. 8
July 10, 1910. (U.S.A. 1210)

1. Tomskiy politekhnicheskiy institut im. S.M.Kirova.
(Humic acids)

S. SAMOVS'KAYA, R.R.; BURDIN, V.K.; DIMIT', V.M.

Reactivity of peat coke and the effect of the additions of ore
and fluxes. Izv.TVI 11:15-100 '61. (Chm. 14:8)

I. Preobrazovaniye professorem doktorem I.V. Goldferom.
(Peat (mineralization) (Gres) (Fuel))

2000 RELEASE UNDER E.O. 14176

A study of oil in the Rozhdestvenskaya deposit of Irkutsk province in
Ugol'yan district, Siberia. Inv. # 11 410-014-61. (1951)

1. Praktikum podcheryan doktorem I.V. Polterem.
Irkutsk province—Ore deposit (Ugol'yan sulfide)
Ugol'yan

KHROMOVSKAYA, Y.K., IVANOV, V.D.

Effect of iron ore and furnace flux additions on the yield of products
of peat semicoking. Izv. TPI 126:12-14 '64. (MIRA 18:7)

SMOL'YANINOV, S.I.; STRAMOVSKAYA, K.K.; SMIRNOV, A.P.; OLTISKIY, I.F.;
KVASHNIN, S.A.

Removal of dust and tar from gases by electrostatic precipitation.
Izv. TPI 126:91-97 '64. (MIRA 18:7)

OVLASYUK, V.Ya., kand. tekhn. nauk; SIKHINOV, Yu.S., inzh.;
SUKHOPUDISKIY, N.D., kand. tekhn. nauk

Use of the TE-62 system for the remote control of electric
locomotives. Trudy TSNII MPS no.276:47-63 '64.

(MIRA 17:8)

STRAMOV, M.I. FILIPOV, V.V., inzhener, redaktor.

[Repair of machines in railroad construction] Remont mashin na
zhelezodorozhnom stroitel'stve. Moskva, Gos. transp. zhelez-dor.
izd-vo, 1953. 270 p. (MLRA 7:4)
(Railroads--Maintenance and repair)

STRAMOUS, M.F.

STRAMOUS, M.F., Inshener.

New equipment for building the subgrade of railways. Mekh. trud.
rab. 7 no.11:40-42 D '53. (MLRA 6:12)
(Excavating machinery) (Railroads--Earthwork)

STRAMOUS, M.F.; KATTSEM, I.Ye., inzhener, redaktor; UDOD, V.In., redaktor;
SMOL'YAKOVA, M.V., tekhnicheskiy redaktor.

[The building site equipment repair man] Slesar' po remontu
mashin na stroitel'noi ploshchadke. Moskva, Gos. izd-vo lit-ry
po stroitel'stvu i arkhitekture, 1954. 67 p. (MLRA 7:12)
(Building machinery--Maintenance and repair)

卷之三

After completion of the survey, the party of experts from the B-505 excavator based at the site of the proposed dam, Mr. T. T. Tamm, Mr. G. W. Miller, Mr. R. E. Johnson, Mr. C. L. Smith, and Mr. J. C. Thompson, all of the Bureau of Reclamation, Denver, Colorado, were invited to inspect the site and to make recommendations concerning the proposed dam.

1. The following table gives the results of the experiments.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420019-0"

STRAMOUS, M.P., inzhener; KATTSEN, I., inzhener, redaktor; UDOD, V.Ye.,
redaktor; TOSER, A.M., tekhnicheskij redaktor

[Progressive work practices on a grader-elevator] Perekovoi opyt
raboty na grader-elevatore. Moskva, Gos. izd-vo lit-ry po stroit.
i arkhitektute, 1955. 23 p.
(Excavating machinery)

STRAMOUS, M.Y.

Equipment for finishing work on earthen road beds. Avt.dor. 18
no.2:22-2) Mr-Ap '55. (MLRA 8:6)
(Road machinery)

STRAMOUS, Mikhail Fedorovich; KATTSEN, I.Ye., inzhener, redaktor; MALYSHEV,
M.M., redaktor izdatel'stva; GUSEVA, S.S., tekhnicheskiy redaktor

[Work practice of excavator operator N.P.Ussachev] Opyt raboty
ekskavatorashchika N.P.Ussacheva. Moskva, Gos. izd-vo lit-ry po stroit.
i arkhitektury, 1956. 22 p.
(Excavating machinery) (MIMA 9:10)

STRAMOUS, Mikhail Fedorovich; RARSUNOV, K.P., inzhener, redaktor; KANDYKIN,
A.Ye., tekhnicheskiy redaktor

[Experience in operating ditch diggers] Ovjt raboty na kluvetokopateli.
Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 33 p. (MLRA 10:4)
(Earthmoving machinery)

STRAMOUS, M.P., inzhener.

Experience with operating an excavator. Mekh.stroi. 13 no.2:
24-26 F '56. (MLRA 9:5)
(Excavating machinery)

STRAMOUS, M.F., cand.tekhn.nauk; KATTSEH, I.Ye., inzh., nauchnyy red.;
GUROV, Yu.S., red.izdatel'stva; STEPANOVA, E.S., tekhn.red.

[Practices of repairing excavating and transport machinery]
Opyt remonta zemleroynikh i transportnykh mashin. Moskva,
Gos.izd-vo lit-ry po stroit.i arkhit., 1957. 135 p. (MIRA 11:1)
(Excavating machinery--Maintenance and repair)
(Mototrucks--Maintenance and repair)
(Tractors--Maintenance and repair)

SOV/J1B-E-8/22

~~xx (1,2)~~
AUTHOR: Stramous, M.F., Candidate of Technical Sciences
TITLE: New Machines for Transport Construction (Novyye mashiny
dlya transportnogo stroitel'stva)
PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1983,
Nr 3, pp 14-17 (USSR)
ABSTRACT: For the construction of railroads, thousands of excav-
ators are used. The earth, worked by them, amounts to
hundreds of millions of m³. The TsNIIS has constructed
a new type of excavator, leading to a considerable pro-
duction increase. For the construction of dams, hydro-
mechanization is widely applied. The earth-working
machine 12 NZhA with automatic steering drive, increases
production and decreases construction costs. For work
on rocky ground, drilling machines BTS-1 mounted on
tractor S-81 are employed. The manual work of small
ditch construction and the grading of slopes will be
replaced by excavator ETU-152, with special equipment
for ditch digging. For final clearing away of earth, a

Card 1/2

New Machines for Transfer Construction

DDV/118-12-a-8/42

"refiler" is used. The worm-drive grader, mounted on the base of excavator ETU-350 is of great importance. For removing unnecessary earth, automatic unloading platforms with 4 containers were manufactured. The Uglich plant produces, for ballast work electroballast machines. For small-scale tasks, regulators combined with tractors and sloping elevators for lifting railroad ties are being constructed. New special machines for laying railroad ties are also being produced. There are 4 photographic and 1 graphic.

Card 1/2

STRAMOUS, Mikhail Fedorovich; KATTSEN, I.Ye., inzh., red.; SERGEYEVA,
A.I., red.; BOBROVA, Ye.N., tekhn, red.

[Maintenance and repair of machinery in railroad construction]
Remont mashin na zhelezodorozhnom stroitel'stve. Izd.2. Moskva,
Vses.izdatel'sko-poligr.ob'edinenie M-va putei soobshcheniya,
1960. 323 p.
(Railroads--Maintenance and repair)
(Railroads--Equipment and supplies)

Ученый секретарь Института физики и химии газов АН СССР, канд. техн. наук, профессор Ю. А. Григорьев

1. The -1,5 mm. & 10 mm. of trachea in regarding a c. term.
2. No. 18 no. 182-24 on 10. (E. 17.2)

1. Int. concentration (here after instr.)
(empty tube and 1 ml. 10% sucrose and 10 ml. air)

TERNOVSKIY, V.A., kand.tekhn.nauk; STRAMOUS, M.F., kand.tekhn.nauk

"Track machinery and mechanisms" by N.N.Gulenko, V.E.Gora.
Reviewed by V.A.Ternovskii, M.F.Stramous. Put' i put.khoz. 6
no.3:46 Mr '62. (MIRA 15:3)
(Railroads--Equipment and supplies)
(Gulenko, N.N.) (Gora, V.E.)

PHASE I BOOK EXPLOITATION

SOV/6245

Stramous, M. F., Candidate of Technical Sciences

Vybor plasticheskikh mass dlya podshipnikov skol'zheniya stroitel'-nykh mashin (Selecting Plastic Materials for Slide Bearings of Building Machinery). Moscow, Mashgiz, 1962. 97 p. 3500 copies printed.

Reviewer: V. N. Lymzin, Candidate of Technical Sciences; Ed.: Ye. A. Velichkin, Engineer; Ed. of Publishing House: P. V. Otdel'nov; Tech. Ed.: N. F. Demkina; Managing Ed. for Literature on Heat Energy, Metallurgy, Highway Construction and Hoisting and Transporting Machinery Construction: N. M. Zyuzin.

PURPOSE: This book is intended for technical personnel engaged in the manufacture, repair, or operation of construction, road-building, and other types of machinery which work in abrasive media.

COVERAGE: The book contains the results of laboratory and operational investigations of the wearability of plastic sliding

Card 1/ 2

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420019-0

GTHAM B.S., M.F., kand.tekhn.nauk

Machine for molding polyamide articles. Bivil.tekh.-ekon.inform.
Gos.nauch.-issl.inst.nauch.i tekhn.inform. no.2125-27 '63.
(MIRA 16:10)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420019-0"

STRAMOUS, M.F., zwied. techn. name

Using bearings made of polyacrylate in construction machinery.
Trans. strrel. 13 no.1285-97 D'63 (MIRA 17r7)

Stramis, M.F., kand.tekh.nauk

Machine for abrasive wear testing of sliding bearings. Biul.
tekhn.-ekon.inform.Gos.such.-issl.inst.such. i tekhn.inform.
16 no.10:52-54 '63. (MIRA 16:11)

STAMOUS, M.F., kand. tekhn. nauk

Economic effectiveness of using polycaprolactam bearings during
the repair of excavators. Stroi. i dor. mash. 9 no.5:20-22 My '64.
(MIRA 17:6)

STRAMOUS, M.F., kand. tekhn. nauk

Wear resistance of plastic bearings of construction and road
machinery. Stroi. i dor. mash. 8 no.3:27-31 Mr '63.
(MIRA 18:5)

STRAMOV, M.F., kand. tekhn. nauk

Advantages of using plastic bearings in the repair of machinery.
Transp. stroi. 14 no.5:30 My '64. (MGRA 18:11)

A L 10214-66

ACC NR: AP5028542

SOURCE CODE: UR/0286/65/000/020/0152/0152

AUTHORS: Stramous, M. F.; Savotin, G. I.; Porokhnya, G. A.; Perelyayev, Yu. N.;
Lysov, N. I.

23

B

ORG: none

TITLE: A machine for building levees along alluvial plains and for forming land slopes
Class 84, No. 175897 [announced by Design and Construction Bureau of
Glavstroymekhanizatsiya of the State Production Committee on the Transport Construction
SSSR (Proyektno-konstruktorskoye byuro glavstroymekhnizatsii gosudarstvennogo
proizvodstvennogo komiteta po transportnomu stroitel'stu SSSR)]

SOURCE: Byulleten' isobreteniya i tovarnykh znakov, no. 20, 1965, 152

TOPIC TAGS: excavating machinery, construction machinery

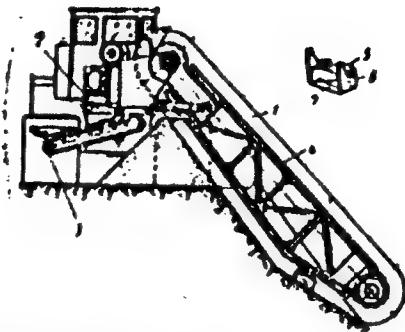
ABSTRACT: This Author Certificate presents a machine for building levees on alluvial
plains and for forming land slopes. The machine contains a working member with
numerous buckets for transverse excavations (see Fig. 1). This member is supported by
a bearing-turning platform. To assure the possibility of levee building and slope
forming, as well as trench excavating, the working member is placed on the turning
platform eccentrically in respect to its axis of rotation. The rear part of the
machine contains a transverse carrier and a demountable stopping baffle fixed to the
frame of the working member. The body of each bucket may be open at the bottom, while

UDC: 621.879.443.6

Card 1/2

2

L 10/14 (6)
ACC NR: AP5028542



O

Fig. 1. 1 - Working member with numerous buckets, for transverse excavation; 2 - supporting-turning platform; 3 - carrier; 4 - frame of the working member; 5 - bucket; 6 - open body; 7 - blade.

a blade is fixed in its foremost part. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 02Mar64

Card 2/2

L 24543-66 ENT(d)/EXP(1) IJP(c) BO
ACC NR: AP6006326

SOURCE CODE: UR/0413/66/000/002/0048/0048

AUTHORS: Ovlasyuk, V. Ya.; Sukhoprudskiy, N. D.; Straznov, Yu. S.; Trifonov, I. I.

ORG: none

TITLE: A frequency system of remote control. Class 21, No. 177954

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 48

TOPIC TAGS: remote control, frequency control, system reliability

ABSTRACT: This Author Certificate presents a frequency system of remote control for distributed objects. The system includes frequency selectors of the group, of the character of operation, and of the number of the object. The system also includes frequency shapers of the object of the remote signal system. The design increases the reliability of the operation. The group selector is connected to the input of the power supply bus bars of the character of operation selectors. The number of the object selector and the character of operation selector are connected to the input of the power supply bus bars of the output relays. The power supply bus bars of the receivers of the character of operation selectors are connected through a rectifier bridge to the output of the group receiver. The receivers of

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UDC: 621.398.654.94

L 24543-66
ACC NR: AP6006326

the number of object selectors contain two output transformers with rectifier bridges. One output of the primary winding of both transformers is connected to the collector of the output triode of the object number selector. The other output of the primary winding of both transformers is connected to the output of the rectifier bridges. The remote signal system pulse shapers are connected to the output of the time-shaping circuit.

SUB CODE: 09/ SUBM DATE: 26Dec63

Card 2/2. NY 5

STRAUTHER, H., inz., promovany ekonom, laureat statni ceny

Competition for the best factory branch. Tech praca 14 no.4:276-
279 Ap '62.

1. Prvni tajemnik Kammer der Technik.

ANDZIJEWSKI, J.; DOMZAL, T.; FUCHS, A.; LACINSKI, S.; NIEMCOWA, T.; SWIETLIK, M.;
SILKA, S.; STRANSKI, A.; ZELUDZIENICZ, J.; TERAJEWICZ, A.

Amputations in hospitals of the Olsztyн Region during the decade of
1950-1959. Chir. narz. ruchu ortop. polska 26 no.6:797-799 '61.

I. Z Oddzialow Chirurgicznych Szpitali w Olsztynie oraz Szpitali
Powiatowych w Giżycku, Kętrzynie Nowym Mieście, Ostródzie, Szczytnie.
(AMPUTATION statist)

STRANAK Antonin, etc. . . KRAJEM PUBLICKA, Brno.

Effect of the tillage with rotary and subsoil plows on the dynamics
of soil physical properties and soil water conditions. Zemel'nye tech.
19 no. 12(123-250) 1-1964.

• Research Station of Basic Agrotechny and Fertilizing, Ichorelice
near Brno. Head of the Station, [Inz. SSc.] Antonin Stranak. Submitted
1 September 1964.

ANEX: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.

5000 ft. of the village with rotary and subsoil plow on the release of soil contaminants. Zemel'nyi sov. no. 124751.760 D-164.

• Research Station of Basic Agriculture and Fertilizing, Pchoretske near Brn. • Head of the Station (Mr. Dr. Antonin Stranak. Submitted on 17 October 1976.

CZECHOSLOVAKIA/Radio Physics - Radiation of Radio Waves.
Transistor Lines and Antennae

I

Abs Jour : Ref Zbir Fizika, No 12, 1959, 28103
Author : Stravak, Frantisek
Inst Title : - Damping Produced by a Round Coupling Slit in a Rectangular Wave Guide in a TE₁₀ Mode
Orig Pub : Slaboproud obzor, 1958, 19, No 11, 746-749
Abstract : The author solves the problem of the passage of a H₁₀ wave through a round hole in the walls of a rectangular wave guide, and also through holes in diaphragms placed in the transverse cross section of a wave guide and in T branches in the E and H planes. Diagrams are given for the determination of the attenuation produced by the holes. A procedure is described for measuring the coupling between the holes and experimental results are given, which are in sufficient agreement with the computed data.

Card 1/1

STANOVY Frantisek, Inc.

Use of ferrites in microwave techniques. Sdel tech 9 no.9:338-347
5 'vol.

STRANAK, Frantisek, inz.

A note on the reflection coefficient of an n-staged transformer in
a radio-frequency transmission line. Slaboproudý obzor 22 no.4:
239-241 Ap '61. (EKA 10:6)

1. Vyzkumny ustav spoju, Praha.
(Electric transformers) (Electric lines) (Radio)

22070
Z/039/61/022/006/003/005
D 225/D305

7.1912

AUTHOR: Straňák, František, Engineer

TITLE: Plane reflecting surfaces in beyond-horizon radio
relay links

PERIODICAL: Slaboproudový obzor, v. 22, no. 6, 1961, 350-355

TEXT: The article deals with the problem of passive reflecting surfaces for beyond-horizon radio-relay links, a subject which was not yet systematically treated in Czechoslovak technical literature. The author derives in detail the expressions for important parameters of a beyond-horizon link as shown in Fig. 1, and lists a practical example of a reflecting surface, destined for an assumed beyond-horizon relay link as shown in Fig. 11. The transmission equation for free space, under the supposition of an incident plane wave, reads $N_p = N_v \frac{A_v A_{rp}}{\lambda^2 r^2}$, in which N_p is the power

available at the receiver; N_v is the power of the transmitting

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X

Plane reflecting surfaces in beyond-horizon radio relay links

antenna; r is the distance between the receiving and transmitting antenna; A_p is the functional surface of the receiving antenna; A_v is the functional surface of the transmitting antenna; and λ is the wavelength. Applied to the available power N_p and the transmitted power N_v of a reflecting surface, the transmission equation

reads:
$$\frac{N_p}{N_v} = \frac{A_v A_{rp} A_{rv} A_p}{d_1^2 d_2^2 \lambda^4}$$
, in which A_{rp} is the functional receiving

surface of the reflector; A_{rv} is the functional transmitting surface of the reflector; d_1 is the distance from the transmitter antenna to the reflector; d_2 is the distance from the reflector to the receiving antenna. The available power in a link with a reflector can be derived from Fig. 4. Since the angle of incidence equals

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E/039/61/022/006/003/005
D225/D305

Plane reflecting surfaces in beyond-horizon radio relay links

the angle of reflection $\Lambda_{rp} = \Lambda_{rv} = \Lambda$, the equation reads:

$N_p = N_v \frac{A_v A^2 A_p}{d^2 d^2 \lambda^4}$. Where more reflectors with projections A_1 ,
 $A_2 \dots A_n$ are used in one link, the equation reads:

$$N_p = N_v \frac{A_v A_1^2 A_2^2 \dots A_n^2 A_p}{d_1^2 d_2^2 \dots d_i^2 \dots d_{n+1}^2 \lambda^{2n+2}}, \quad \text{in which } d_1 \text{ is}$$

the distance from the transmitting antenna to the first reflector;
 d_{n+1} is the distance from the last reflector to the receiving antenna;
and d_i is the distance between two neighbouring reflectors. The additional attenuation of beyond-horizon links can be calculated from the free-space attenuation of a direct link (α_0) and that

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X

Plane reflecting surfaces in beyond-horizon radio relay links of a reflector link (α) and is $\Delta\alpha = \alpha - \alpha_0$; $\Delta\alpha = 20 \log \frac{d_1 d_2 \lambda}{(d_1 + d_2) \lambda}$ /dB/. This additional attenuation decreases with decreasing wavelengths and increasing reflector projection surfaces on the face of the incident wave. Instead of the additional attenuation, sometimes the reflector efficiency is derived as the ratio of the power, N_{p2} , available at the receiver of a beyond-horizon link and the power, N_{p1} , which would be available at the receiver in case of a direct link and is $\eta = \frac{N_{p2}}{N_{p1}}$, which, after substitution, calculation according to the cosine law, and neglecting the term $d_1/d_2 + 2 \cos 2 \beta$ (since d_1/d_2 is much larger than 1), receives its final form

$$\eta = \frac{\lambda^2}{d^2 \lambda^2} \left(\frac{d_2}{d_1} \right)^2 . \quad \text{The transmission equation was derived under the}$$

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Plane reflecting surfaces in beyond-horizon radio relay links

assumption that a plane wave strikes the receiving antenna; the entire aperture of the receiving antenna is irradiated in phase. Conditions under which the transmission equation remains still valid, can be derived from Fig. 6, in which a_1 and a_2 are the

maximum dimensions of transmitting and receiving antenna apertures; and d is the distance between the two parallel orientated apertures. It can be assumed that the aperture of the transmitting antenna consists of elementary radiators, two of which (1 and 2) are indicated in the figure. The maximum path difference between arbitrary spots on the aperture of the transmitting and the aperture of the receiving antenna is $\Delta = \sqrt{d^2 + (\frac{a_1}{2} + \frac{a_2}{2})^2} - d$.

which, solved for d , reads: $d = \frac{(a_1 + a_2)^2}{8\Delta} - \frac{\Delta}{2}$.

For values of d , which are greater than that of the last equation,

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X

Plane reflecting surfaces in beyond-horizon radio relay links

the transmission equation remains valid. From the calculation for a rectangular antenna for which $d \geq 16 \frac{a^2}{\lambda}$ it results that under

optimum conditions only the 265th part of the transmitted power can be received, or that the level of received power is at least 24.08 dB under the transmission level. An important factor is the planeness of the reflector surface, which must have a perfection to a degree that the phase difference on the face of the reflected wave does not exceed 90°. All the above calculations assume that the centers of the transmitting antenna, the reflector, and the receiving antenna lie in the plane of incidence and that the planes of transmitting and receiving antennae apertures and the plane of the reflection surface are perpendicular to the plane of incidence. However, in the field, the transmitter, the reflector, and the receiver will be installed at different elevations and the reflecting surface must be properly orientated, either according to precise calculations, or data taken from a map. The radiation

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Plane reflecting surfaces in beyond-horizon radio relay links

pattern of a rectangular reflecting surface can be derived from Fig. 9, and is formulated in detail by B. Kvasil [Ref 1: Theoretické základy techniky centimetrových vln (Theoretical Basis for Centimeter-Wave Technique), Prague, SNTL, 1957, 255-278]. This article contains the derivation procedure and further determines the zero directions of the radiation diagram together with the width of the main lobe between the first zeros of the diagram in the incidence plane. The last part of the paper lists the practical example of a reflector for beyond-horizon transmission (Fig 11.). From the two possibilities of installing the reflector at 300 or 400 m, the higher elevation was chosen because of smaller additional attenuation, simpler geometrical design and smaller angle of incidence (smaller beam deflection). This sample link with arbitrarily chosen topographical features is designed for a wavelength of 5 cm and operates dependably with a total attenuation of 70dB. Both the transmitting and receiving antenna are parabolic and have 40 dB more gain than an isotropic radiator. The antenna gain can be

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Plane reflecting surfaces in beyond-horizon radio relay links formulated in which A_g is the geometrical surface and η is the efficiency; $A_g \cdot \eta = A$ the effective surface. A parabolic antenna with horn-type primary radiator has an efficiency of $\eta = 0.55$, an effective surface of $A = 1.99 \text{ m}^2$, and a geometrical surface of $A_g = 3.62 \text{ m}^2$ (the diameter of the antenna aperture is 1.07 m). Other data of the sample link are: free-space attenuation between the transmitter and receiver = 54 dB; additional attenuation of the reflector = 16 dB; sides of rectangular reflector $a = 5.05 \text{ m}$, $b = 6.3 \text{ m}$; area of mirror projection $A = 25.4 \text{ m}^2$; beam width between half-power points in the plane of incidence is $\delta(\frac{1}{2}) = 0.6^\circ$; angle of incidence $\beta = 37^\circ 47'$; the orientation of the reflector is rather critical, its azimuth $\Phi = 37^\circ 46'$, its elevation $\beta = 2^\circ 2' 24''$; the minimum permissible distance between the reflector and the receiver is $d = 3.4 \text{ km}$. In the given case,

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Plane reflecting surfaces in beyond-horizon radio relay links
conditions for applying the free-space transmission equation are
fulfilled. The inclination versus the horizontal plane is $\lambda = 21^\circ 30'$
for the axis of the transmitting antenna, and $\beta = 20^\circ 52'$ for the
axis of the receiving antenna. The maximum planeness factor of
the mirror is 4.9 mm. In conclusion, the author states that the
practical design of such a reflector is rather complicated and re-
quires great precision. The large surface of 31.8 m^2 must be
precisely orientated, especially in view of the small beam-width
of the main lobe, which is only 0.6° . The surface must also be
secured against vibrations so that the maximum deflection of the
reflector from the plane does not exceed $1/10$ of the wavelength.
Despite the large gains of the transmitter and receiving antenna,
the reflector must be rather large which limits the use of passive
reflectors to rather short beyond-horizon links. There are 11
figures, 1 Soviet-bloc and 8 non-Soviet-bloc references. The refe-
rences to the English-language publications read as follows: H.T.
Fris: Note on a Simple Transmission Formula. Proc. I.R.E. 34 61946,
May, 254-256; H. Magnuski, T.P. Koch: Passive Repeater Bends

Card 9/12

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D225/D305

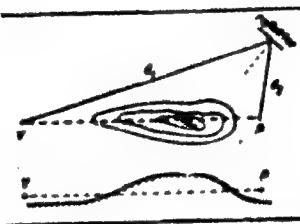
Plane reflecting surfaces in beyond-horizon radio relay links

Microwave Beam. Electronics, Feb. 1953, 134-137; W.C. Jakes: A Theoretical Study of an Antenna-Reflector Problem, Proc. I.R.E. 41, Feb. 1953, 272-274; R.G. Medhurst: Passive Microwave Mirrors. Electronic and Radio Engineer 36, 1959, Dec. no 12, 442-449.

ASSOCIATION: Výzkumný ústav spojů, Praha (Communications Research Institute, Prague).

SUBMITTED: April 20, 1960

Fig.1: Use of a reflector on a beyond-horizon link (V=transmitter, P=receiver).



Card 10/12

Perisopic antenna

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D291/D304

approximated by a Gaussian function. The calculation based on the second assumption is less accurate, but much simpler (it eliminates double integration) and the gain can be expressed in closed form by functions listed in tables. The error is insignificant for practical use since it does not exceed the value of 1 dB. The author then calculates the simplified radiation pattern of a perisopic antenna, based on the amplitude and phase distribution on the reflector projection as resulting from the approximation of the main radiation lobe of the primary antenna. In conclusion, the author states that perisopic antennas are very essential for microwave radio-relay links and have even a gain vs. parabolic antennas when properly designed. However, reflectors mounted on relay towers impose also some difficulties such as reflection by the tower, tower rigidity, etc. There are 5 figures and 10 references: 6 Soviet-bloc and 4 non-Soviet-bloc. The references to the English-language publications read as follows: W.C. Jakes: A Theoretical Study of an Antenna-Reflector Problem. Proc. IRE, 1953, no. 2, pp 272-274; R.G. Medhurst: Passive Microwave Mirrors. Electronics and Radio

Card 2/3

2/039/61/022/012/006/003
D291/D304

99300

AUTHOR: Stranák, František, Engineer

TITLE: Nomograms for the design of plane reflecting surface
for beyond-horizon radio-relay links

PERIODICAL: Slaboproudý obzor, v. 22, no. 12, 1961, 740-742

TEXT: By the use of nomograms the author presents the relations required for designing reflectors of beyond horizon relay links. Listed are nomograms for free space attenuation between two isotropic radiators, for additional attenuation of a single and of two reflectors, and for determining the critical distance between two apertures, in cases where the transfer equation for free space can still be considered valid. The short presentation is a supplement to an article previously written by this author, listed under Ref. 1: (F. Stranák: Rovinné odrazné plochy ve směrových spojích na trubách bez přímé viditelnosti (Plane Reflecting Surfaces in Beyond Horizon Radio-Relay Links), Slaboproudý obzor, v. 22, (1961), no. 6, pp. 350-355). There are 7 figures and 1 Soviet-bloc reference.
Card 1, 2

B

Homogram for the design ...

Z/039/61/022/012/006/003
D291/B304

ASSOCIATION: Výzkumný Institut spojů, Praha (Communications Research Institute, Prague)

SUBMITTED: June 13, 1961

B

STRANAK, Frantisek, inz.

A passive relay of imperfect realization. Slaboproudý obzor
23 no.6:345-349 Je '62.

1. Výzkumný ustav spojů, Praha.

STRANAK, inz.

Reflecting surface as a part of antenna directional system.
Slaboproudý obzor 23 no.7:413-421 J1 '62.

Z/059/62/023/012/002/004
E192/E582

Author: Stranak, Frantisek, Engineer
Title: Microwave bandpass filters with quarter-wave couplings
Periodical: Slaboproudny obzor, v. 23, no. 12, 1962, 680 - 685
Text: The filter considered is illustrated in Fig. 1. The device consists of n cavities in a rectangular waveguide, each cavity being formed from a section of the guide having a length d_i and two similar susceptances at the ends of each section. The normalized susceptance is jB_i and the length λ_i of the i -th cavity is chosen so that for a given jB_i the cavity resonates at the centre frequency f_0 of the filter. If the cavities are tuned to f_0 but their effective quality factors q_i are different, the length λ_i is approximately equal to half the wavelength in the waveguide λ_{g0} corresponding to f_0 . The length d_i of the coupling sections is approximately equal to $\lambda_{g0}/4$. The equivalent
Card 1/3

Microwave bandpass filter

7/059/62/023/012/062/061
7192/3562

Circuit of such a filter is illustrated in Fig. 4, where the series and parallel resonant circuits are tuned to the centre frequency f_0 , the filter is terminated with a matched load and supplied from a generator with a matched output impedance. The problem of designing the filter (either for maximum flatness or Chebyshev response) consists of determining the effective quality factors q_{ei} of the individual stages. The formulae for q_{ei} are derived under the assumption that the susceptances at the terminals of each cavity are linear functions of frequency in the vicinity of f_0 . q_{ei} are expressed as functions of the susceptance at the resonant frequency. The relationship between this susceptance and the resonance length L_i of the cavity is then derived and a formula for d_i is determined. The problem of realization of the susceptance is not considered. There are 9 figures.

Card 2/3

STRANAK, inz.

Microwave circuits for combining and branching high-frequency channels in radio relay systems. Slaboproudny obzor 24 no.2: 109-111 F '63.

STRANAK, Frantisek, inz. CSc.

Future of microwave communications. Slatyprondy obzor
25 no. 2: 104-105 F '64.

. HUMEK, Frantisek, Ing. Sc.

Reflecting surfaces in microwave relay telecommunications.
Ca spoj 9 no.4:7-11 Ag '64.

.. Research Institute of Telecommunications.

STRANAK, Frantisek, ins. CSc.

Microwave system engineering using large passive reflectors.
Slaboproudny obzor 25 no.10;613-616 O '64.

L 1022-66 T/FCS(k) WR

ACCESSION NR: AP5025946

CZ/0039/65/026/005/0279/0285

32
30
P

AUTHOR: Stranak, Fr. (Engineer, Candidate of sciences)

TITLE: Periscope antenna with phase equalization

SOURCE: Slaboproudny obzor, v. 26, no. 5, 1965, 279-285

TOPIC TAGS: antenna, antenna engineering

ABSTRACT: [Author's Russian and English summaries, modified]: The article points out the possibility of using a periscope antenna system with a reflecting plane, at the projection or aperture of which phase equalization is achieved by means of a lens. By equalizing the phase of the electromagnetic wave on the projection-aperture an effect is obtained similar to that produced by curving the reflecting surface into the form of a paraboloid generated by rotation, that is, increasing the gain of the entire system. The qualities of the periscope antenna system with phase equalization by means of a lens are analyzed. Orig. art. has: 7 figures, 31 formulas, and 4 graphs.

Card 1/2

L 1022-66

ACCESSION NR: AP5025946

2

ASSOCIATION: Vyskouy ustan spojs, Prague (Communications Research Institute)

SUBMITTED: 22Oct64

ENCL: 00

SUB CODE: EC

NR REF SOV: 001

OTHER: 008

JPRS

Card 2/2

STRUNAK, J.; CERNATA, J.

"National Competition of Czechoslovak Firemen", P. 582, (SVET MOTORU,
Vol. 8, No. 19, Sept. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (KEAL), LC, Vol. 3, No. 12,
Dec. 1954, Uncl.

STRANAK, Josef

Use of models from wax and air mixture for precise casting.
Slevarenenatvi 10 no.5:185-186 My '62.

1. Zavody Rijnova revoluce, Uharsky Brod.

BOZDECH, Z.; STRAKA, V.; VLACH, O.

Transposition of the ulnar nerve after traumatic neuritis.
Acta chir. orthop. traum. czech. 30 no.5:421-426 1963.

1. Ortopedicka klinika lekarske fakulty UJEP v Brne, pred-
nosta prof. dr. M. Janecek.

STRANAK, V.; VLACH, O.

Contribution to the differential diagnosis of cervicobrachial syndrome.
Acta chir. orthop. traum. czech. 31 no.2:139-141 Ap '64.

1. Ortopedicka klinika lekarske fakulty UJEP v Brne (prednosta
prof. dr. M. Janecek).

SLOVIN, Dimitrij; STRANAKOVA, Vera

Laboratory infection of man with a virus of Newcastle disease.
Cas.lek.cesk. 91 no.9:264-265 29 Feb 52.

I. Ustav pro lekarskou mikrobiologii a immunologii Karlovy uni-
versity v Praze. Prednosta prof. dr. F.Patocka.
(NEWCASTLE DISEASE, transmission,
laboratory infect. in man)

BURIAN, V., Dr; STRANAKOVA, V., Dr; VYSOKA, B., Dr (technicka spoluprace
N.Vedralove)

Epidemiology of diseases caused by *E. coli* O 111 and O 55. Cesk.
hyg. epidem. mikrob. 2 no.5:381-385 Oct. 53.

1. KME Liberec (for Burian, Stranakova) 2. UEM-hyg. epid. fakulta
(for Vysoka)
(*ESCHERICHIA COLI*,
virulence tests)

BIDA, J., doc. inz. CSc.; STIBA, J., M.Sc.

Machining with ceramic plates made in Czechoslovakia.
Strojirenske 14 no. 3; 186-196 Mr 164.

1. Department of Machining Technology, Faculty of
Mechanical Engineering, Higher School of Technology,
Kosice.

Glucko, M., Szczepanow, prof. mer. Inst. of Mining, Institute of Mining,
Inst. of Min., WDK, Warsaw, Poland, 1964.

Burnt brown coal by the ion exchange method. Silver test gave
prace no. 330-1-28 '64.

I. Central Mining Institute, Katowice.

AND J. P. R. DE PIJL (MICROWAVE SPECTROSCOPY, IV) H. STRAIN, G. RIDDELL, J. J. LEE, AND J. E. WILSON, THREE-LEVEL LASER FRY, 1956, 195 p. (Ph.D. Thesis, Univ. of Calif., Berkeley). PUBLISHED BY THE KODAK LABORATORIES: EAST HANOVER, N.J., 1956. AUTHOR: T. P. H. STRAIN. PRICE: \$10.00.

1. Name of informant - V. J. MILEV, As.

2. Description of the information reported. From interview 16 May 2000.
2. 10.

3. State Country Coordinate "1 May", Kiev.

The problem of effective mechanization; a study of the building trade in Western Germany.

P. J. (MICHALISAK.) (Praga, Czechoslovakia) Vol. 5, No. 1, Jan. 1957

SO: Monthly Index of East European Construction (MEAI) LC. Vol. 7, No. 5, 1958

STRANECKY, Frantisek, dr.

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[doc] Rudolf Trostel. Reviewed by Frantisek Stranacky. Poz
stavby 11 no.3:167-168 '63.

... , Trutisk, dr.

Repair of a concrete dam by plastic materials. Inz stavby 11 no.
146. Ag '63.

ACC NR: A7605167

SOURCE CCN: HU/2502/65/015/004/0313/0322

AUTHOR: Foldesi, Istvan; Straner, Gyorgy

38
B+1

ORG: Institute of General and Inorganic Chemistry, L. Eotvos University, Budapest;
Research Institute for Electrical Industry, Budapest

TITLE: Organotin compounds, II. Preparation of organotin oxinates and testing of
their fungicidal activity

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 45, no. 4, 1965, 313-322

TOPIC TAGS: organotin compound, fungicide

ABSTRACT:
Some new triorgano-tin oxinates, diorgano-tin oxinates and monoorgano-tin oxinates have been prepared by two methods: (a) from sodium oxinate and the corresponding organotin halide, and (b) from 8-hydroxyquinoline and the corresponding organotin oxide. Systematic tests for the fungicidal activity of the product have been carried out in Czapek-Dox culture medium. Triorgano-tin oxinate and the organotin trioxinate are highly effective fungicides, while diorgano-tin dibinxinates have hardly any activity. Orig. art. has: 6 tables. [Orig. art. in Eng.]

JPRS: 33,906
SUB CODE: 07, 06 / SUBM DATE: 16Jul64 / ORIG REP: 001 / OTH REF: 026

LS
Card 1/1

0916 0552.

KOLIKHIN, I.R.; GORYA, N.I. [Im'nia, N.R.]; STRANHOVSKAYA, N.V.
[Stranhov's'ka, N.V.]; SHETNEVAN, A.K.

Effect of quaternary salts of 4(n-diethylaminoethyl)-pyridines
on dysentery bacteriophage. Mikrobiol. zhur. 27 no.2:5'-60 '65.
(MIRA 18:5)

I. Donetskij meditsinskij institut.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420019-0

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CIA-RDP86-00513R001653420019-0"

STYANIK, I.

no academic degree or affiliation indicated

Bratislava, Farmaceuticky Uzor, No 11-12, 1962, pp 507-508

"Experiences with Boiling Fans in the Preparation of Infusion Solutions"

SEKERA, Ales; STRANIK, Jan

Glucochloraloses. II. Electrophotometric determination of alpha-
and beta glucochloralose. Cesk. farm. 4 no.7:330-333 Sept 55.

1. Z Ustavu pro chemii farmaceutickou Masarykova university v
Brne.

(HYPNOTICS AND SEDATIVES, determination,
 α - & β -glucochloralose, electrophoresis)
(ELECTROPHORESIS,
of α - & β -glucochloralose)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420019-0

2 - 10/28

Source: CIA - Central Intelligence Agency

Affiliation: Central Intelligence Agency

Sources: CIA - Central Intelligence Agency

Data:

600 34.643

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420019-0"

HOUSA, Vaclav, promowany geolog; SCHEIBER, Ervin, promowany geolog;
STRANIK, Zdenek, promowany geolog.

Tithonian stratigraphy of West Carpathians. Geol. sbor. 14
no.1:3-17 '63.

1. Geological Institute, Czechoslovak Academy of Sciences,
Praha 2, Spalena 49 (for Housa). 2. Department of Geology
of the Faculty of Natural Sciences, J.A.Comenius University,
Bratislava, Gottwaldovo namesti 2 (for Schreiber). 3. Central
Geological Institute, Prague 1, Hradebni 9 (for Stranik).

"APPROVED FOR RELEASE: 08/26/2000

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APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653420019-0"

STRANJAKOVIC, Dragoslav

Disease of Ilija Garasanin. Srpski arh. celok. lek. 84 no.5:
683-690 May 56.

(BIOGRAPHIES,
Garasanin, Ilija (Ser))

STRANKMULLER, J
Czechoslovakia /Chemical Technology. Chemical Products I-14
and Their Application

Water treatment. Sewage water.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31779

Author : Strankmuller J.

Title : Work of the Committee on Phenolic Water in the
German Democratic Republic.

Orig Pub: Vodni hospodarstvi, 1955, 5, No 7-7a, priloha,
9-11

Abstract: The most convenient and economic method for the
purification of phenolic sewage water has been
found to be extraction with phenolsolvant. The
number of steps must be strictly limited. The
treatment with Wofatit involves large losses of methanol.
Systems have been proposed for the purification of

Card 1/2

ACC NR: AP6023122

SOURCE CODE: CZ/0060/65/000/016/0299/0260

AUTHOR: Stranska, Eva (Graduate biologist)

ORG: Parasitological Department, Section of Hygiene and Epidemiology, Ceskos Budejovico (Parazitologické oddelení hygienicko-epidemiologického oddílu)

TITLE: Some findings in parasitological problems in a special group

SOURCE: Vojenske zdravotnické listy, no. 6, 1965, 259-260

TOPIC TAGS: parasitology, disease incidence

ABSTRACT: The author examined a group of 256 illiterates and a control group of 532 normal soldiers. 58.2% of the illiterates suffered from parasites (46% had *Trichuris trichuria*); among the control group 9.4% showed positive findings (5.8% *Giardia intestinalis*). In 1963 the author investigated 122 military cooks; in 15 of them positive findings were made (11 *Entamoeba coli*). Orig. art. has: 3 tables.

JPRS

SUB CODE: 06 / SUBM DATE: none

Card 1/1 ZC

UDC: 616-002.9-058(379.2)1356,31
094 K29

BILY, Jiri; STRANSKA, Tat'ana

Dermology as technic of determination of higher nervous activity.
Cesk. Psychiat. 53 no.5:348-352 Oct 57.

1. Psychiatricka klinika VLA v Hradci Kralove.
(CENTRAL NERVOUS SYSTEM, physiol.
determ. of funct. with dermolexy (Cx))
(SENSATION
dermolexy in determ. of funct. of CNS (Cx))

UTRATA, Roman; STHANSKA, Tat'ana

Movement dynamics & stereotypes in various psychic diseases. Cesk.
psychiat. 53 no.5:359-364 Oct 57.

1. Z Psychiatrickeho oddeleni UVH a psychiatricke kliniky VIA v
Hradci Kralove.

(MENTAL DISORDERS, physiol.
movement dynamics (Cs))

(MOVEMENT, in v.r. dis.
dynamics in ment. disord. (Cs))

STRANSKA, T.; FELIKAN, V.

Rehabilitation in aphasia. Cesk. psychiat. 57 no.6:383-388 '61.

1. Psychiatricka klinika lekarske fakulty KU v Hradci Kralove.
(APHASIA rehabil.)